

UNITED STATES GEOLOGICAL SURVEY WASHINGTON, D. C. 20540
MULTI-POINT TEST FOR GAS WELL

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C-122
Form G-12
Revised 6-1-65

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☒ Field		☐ Annual		☐ Special		DEC 1973	
Operator Mobil Oil Corp.				Company Llano, Inc.			
Location Carlsbad, South				County Morrow			
Well No. 8-11-73		Depth 12,113'		Elevation 12,070		Elevation 3178' GL	
Lease Name State of Comm.				Well No. 1			
Size 7	Grade 26#	Depth 6.276'	Depth 12,113'	From 11,925	To 12,056	Unit 1	
Size 2 3/8	Grade 4.7#	Depth 1.995'	Depth 11,304	From -	To -	Unit C	Sec. 17
Type of Gas Gas-Gas Dual				Packer Set At 11,285		County Eddy	
Tubing 184		Mean Annual Temp. 12,113		Baro. Press. 60		State New Mexico	
11,304	11,925	0.5370	1.46	0.22	0	Prover 4"	Meter Run Flange

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h.w.	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
4"	2.25	895	3.9	72	3897	60				48 hr. S.T.
4	2.25	910	8.0	72	3844	60				24 hr
4	2.25	910	13.3	72	3050	60				24 hr
4	2.25	855	24.0	62	2632	60				24 hr
4	2.25				1684	60				24 hr

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor F_t	Gravity Factor F_g	Super. Compress. Factor, F_{pv}	Rate of Flow Q, Mcf/d
1	25.64	59.51	908.2	0.9887	1.305	1.065	2,097
2	25.64	85.94	923.2	0.9887	1.305	1.047	3,034
3	25.64	110.81	923.2	0.9887	1.305	1.047	3,911
4	25.64	144.35	868.2	0.9981	1.305	1.047	5,144

NO.	P_r	Temp. °R	T_r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	1.34	532	1.53	.881	857.333	50.5	0.587	XXXXXX	678	348
2	1.36	532	1.53	.879						
3	1.36	532	1.53	.879						
4	1.28	522	1.50	.878						

NO.	P_r^2	P_w^2	$P_r^2 - P_w^2$	$\frac{P_r^2}{P_r^2 - P_w^2}$	$\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n$
1	11,950	3479	12,100	3.188	1.32169
2	9,382	3,112	9,685	5,603	1.21435
3	6,996	2,736	7,484	7,802	
4	2,880	1,929	3,721	11,567	

Absolute Open Flow	6247	Mcf/d @ 15.025	Angle of Slope @	55° 4'	Slope, n	.6963
Remarks: Initial 4-point test to pipeline.						
Approved By Commission:	Conducted By:	Calculated By:	Checked By:			
	J.C. Gordon, Jr.	J.C. Gordon, Jr.	W.A. Bradford			